

L Number	Hits	Search Text	DB	Time stamp
-	53958	((("175") or ("166")).CLAS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/13 14:30
-	11	((("175/\$) or (166/\$)).CCLS.) and (jar with housing with mandrel with coupl\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/13 14:48
-	4	((("5086853") or ("4508174")).PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/13 14:50
-	232	(166/178).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/13 15:17
-	11	("Re28768" "0046815" "0051136" "1214622" "1450024" "2305261" "2628820" "2739654" "3054454" "3358765" "4427064").PN.	USPAT	2002/11/13 15:24
-	6	4736797.URPN.	USPAT	2002/11/13 15:27
-	5	("2706616" "2847655" "3817345" "4245313" "4319240").PN.	USPAT	2002/11/14 08:33
-	10	2706616.URPN.	USPAT	2002/11/14 08:47
-	4	4416494.URPN.	USPAT	2002/11/14 08:52
-	8	("4648444" "4685516" "4697641" "4706744" "4736797" "4753291" "4759406" "4776393").PN.	USPAT	2002/11/14 08:57
-	6	5109921.URPN.	USPAT	2002/11/14 09:01
-	6	("2187007" "2620029" "3024844" "3957118" "4098342" "4624308").PN.	USPAT	2002/11/14 09:06
-	9	4706744.URPN.	USPAT	2002/11/14 09:10
-	0	"081961"	US-PGPUB	2002/11/26 13:55
-	181	(((((175/\$) or (166/\$)).CCLS.) and jar) and housing and mandrel and coupl\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/26 13:55
-	0	(((((175/\$) or (166/\$)).CCLS.) and jar) and housing and mandrel and coupl\$3) and vibrator	US-PGPUB	2002/11/26 13:56
-	0	(((((175/\$) or (166/\$)).CCLS.) and jar) and housing and mandrel and coupl\$3) and (drilling adj hammer)	US-PGPUB	2002/11/26 13:56
-	937	((("175/\$) or (166/\$)).CCLS.) and jar	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/26 14:24
-	0	(((((175/\$) or (166/\$)).CCLS.) and jar) and vibrator	US-PGPUB	2002/11/26 13:56
-	0	(((((175/\$) or (166/\$)).CCLS.) and jar) and (drilling adj hammer)	US-PGPUB	2002/11/26 13:56
-	1	(((((175/\$) or (166/\$)).CCLS.) and jar) and housing and mandrel and coupl\$3) and vibrator	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/26 14:13
-	0	(((((175/\$) or (166/\$)).CCLS.) and jar) and housing and mandrel and coupl\$3) and (drilling adj hammer)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/26 14:19
-	10	(((((175/\$) or (166/\$)).CCLS.) and jar) and vibrator	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/26 14:24
-	1	(((((175/\$) or (166/\$)).CCLS.) and jar) and (drilling adj hammer)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/26 14:20

-	0	((175/\$) or (166/\$)).CCLS.) and ((drill adj bit) near5 vibrator)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/26 14:26
-	1	((175/\$) or (166/\$)).CCLS.) and ((drill adj bit) near10 vibrator)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/26 14:25
-	35	((175/\$) or (166/\$)).CCLS.) and (drilling adj hammer)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/26 14:27
-	3	((175/\$) or (166/\$)).CCLS.) and (jar near5 actuator)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/26 15:05
-	0	((175/\$) or (166/\$)).CCLS.) and jar and (free near5 striking near5 range)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/26 15:06
-	1	((175/\$) or (166/\$)).CCLS.) and (jar near5 orifice near5 (open closed))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/26 15:06
-	158	(175/297).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/27 07:39
-	126	(175/55).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/27 07:39
-	226	(175/92).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/27 07:41
-	234	(175/293).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/27 07:42
-	383	(175/73).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/27 07:43
-	265	(166/301).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/27 07:43
-	0	(downhole adj tool) near5 housing near5 mandrel near5 actuat\$3 near5 (signal power)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/02/25 10:27
-	0	(downhole adj tool) near5 housing near5 mandrel near5 (signal power)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/02/25 10:28
-	1	(downhole adj tool) near10 housing near10 mandrel near10 (signal power)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/02/25 10:28

-	0	jar near5 housing near5 mandrel near5 (signal power)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/02/25 10:28
-	1	jar near10 housing near10 mandrel near10 (signal power)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/02/25 10:28
-	10	jar same housing same mandrel same (signal power)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/02/25 10:28
-	7	((175/\$) or (166/\$)).CCLS.) and (jar near5 electric)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/02 13:19
-	4	((166/178).CCLS.) and (166/65.1 166/66 166/66.4-66.7)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/02/25 10:34
-	0	((175/\$) or (166/\$)).CCLS.) and (electr\$4 adj jar)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/02/25 10:35
-	8	((2153883") or ("3191677") or ("3424244") or ("3528498") or ("3616868") or ("4890682") or ("6029748") or ("6112818")).PN.	USPAT	2004/06/02 15:09
-	2	("6290004").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/16 09:18
-	2	("6655460").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/02 09:50
-	0	(control\$4 near3 drill\$3) with (electric\$3 near3 transmit\$4 near3 (tubular tubing pipe string casing)) with (tool valve)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/02 13:21
-	1	(control\$4 near3 drill\$3) same (electric\$3 near3 transmit\$4 near3 (tubular tubing pipe string casing)) same (tool valve)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/02 14:43
-	17	(control\$4 near3 drill\$3) and (electric\$3 near3 transmit\$4 near3 (tubular tubing pipe string casing)) and (tool valve)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/02 13:26
-	1	(control\$4 near3 drill\$3) same (electric\$3 near3 transmit\$4 near3 (tubular tubing pipe string casing))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/02 14:43
-	20	(control\$4 near3 drill\$3) and (electric\$3 near3 transmit\$4 near3 (tubular tubing pipe string casing))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/02 14:50
-	2	(control\$4 near3 drill\$3) and (electric\$3 near3 transmit\$4 near3 (tubular tubing pipe string casing)) and jar\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/02 14:51
-	36	(solenoid near3 valve) with jar\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/02 15:11

-	84	(solenoid near3 valve) same jar\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/02 15:19
-	2	("4796708").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/02 15:19
-	201	(175/104).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/03 07:50
-	887	(175/61).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/03 07:50
-	570	(175/57).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/03 07:50
-	10	((175/104).CCLS.) and ((175/57).CCLS.)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/03 07:52
-	7	((175/104).CCLS.) and ((175/61).CCLS.)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/03 07:52